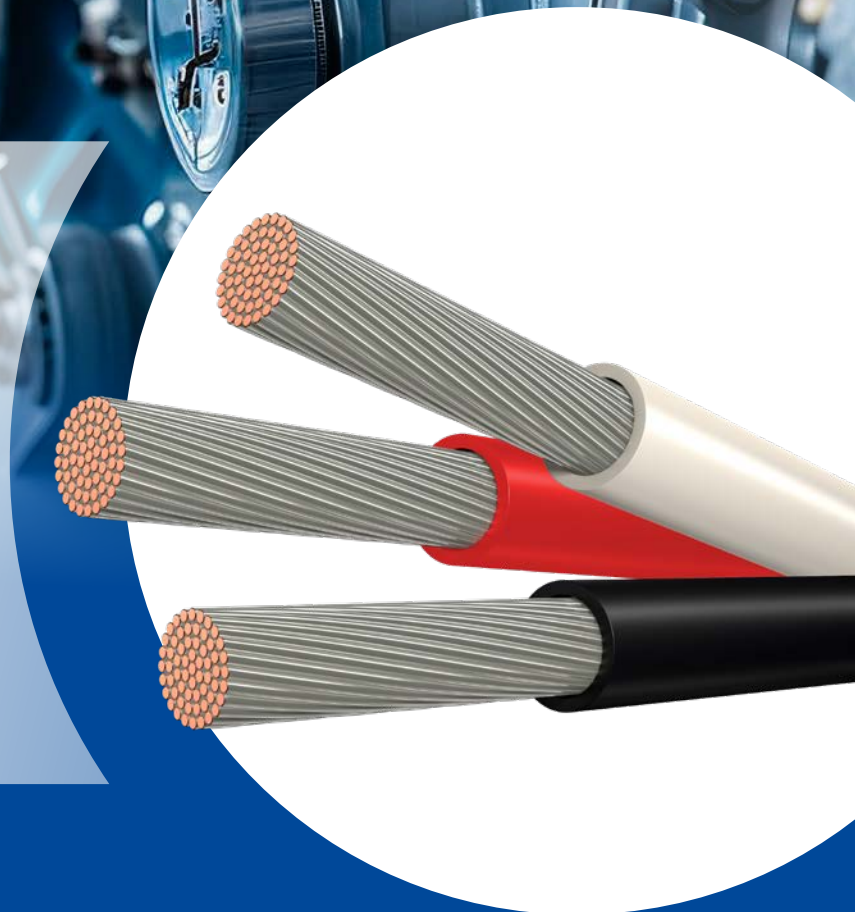


**BizLink**

***BizLink SeaLine<sup>®</sup>  
Heat & Temp 145***

*Reliable and resistant  
cables for extreme  
conditions*

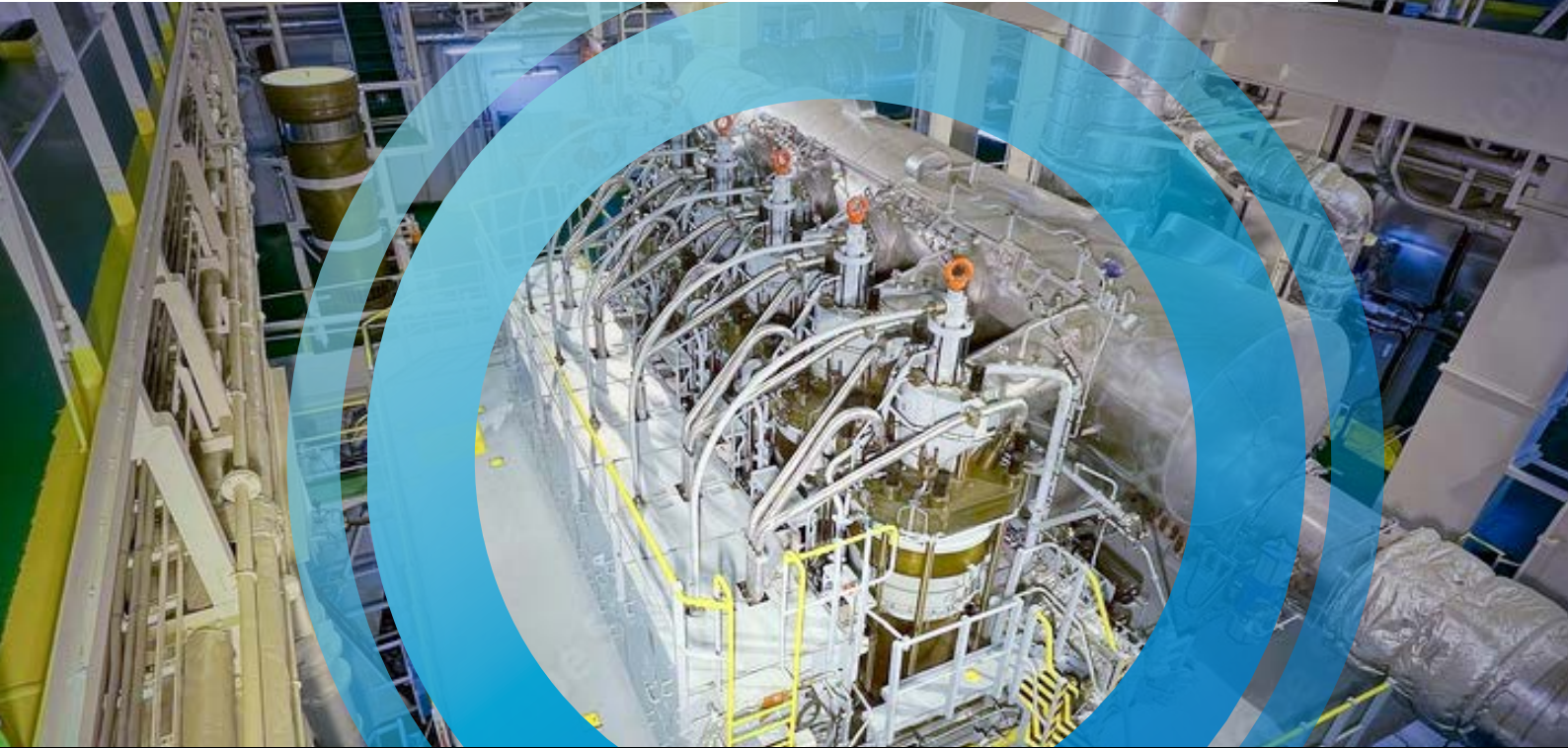
Marine



# BizLink SeaLine® Heat & Temp 145

*Reliable and resistant cables for extreme conditions*

› **FOR A WIDE RANGE OF INDUSTRIAL AND MARITIME APPLICATIONS**

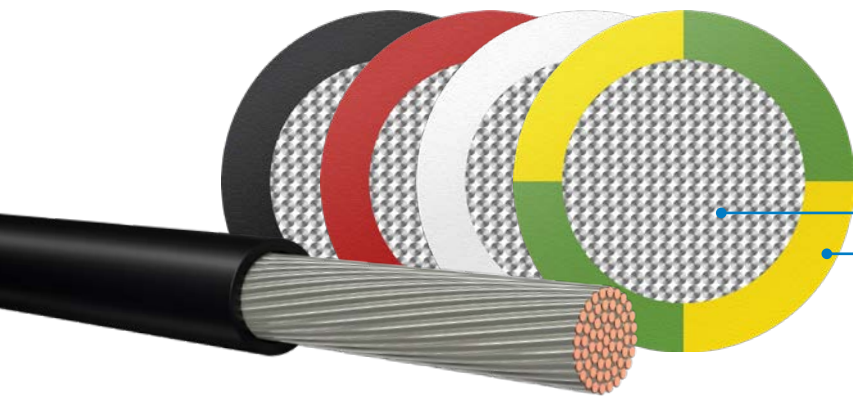


The cables are specially designed for industrial and maritime applications and can withstand even extreme environmental conditions. They are suitable for fixed and flexible installations in dry, damp and wet areas and are highly resistant to weathering and UV radiation. They are also largely oil-resistant and ideal for outdoor use.

## Characteristics

- › Heat-resistant up to +140 °C
- › Oil & chemical-resistant (SHF2, NEK 606)
- › Flexible at low & high temperatures
- › DNV approval
- › UL approval

# BizLink SeaLine® Heat 145



**Conductor** > Stranded tinned copper wire

**Insulation** > Thermoplastic copolymer (FRNC), cross-linked



## CABLE CHARACTERISTICS >

- Temperature resistance**  
 Permanent use at temperatures up to +140 °C
- Halogen-free & low smoke**  
 Increased safety in the event of fire (e.g. in acc. with IEC 60754-1/2 and IEC 61034)
- Flame resistance**  
 Complies with common maritime standards such as IEC 60332-1-2
- Oil, mud and chemical resistance**  
 Suitable for offshore environments, meets requirements in acc. with HF90
- Mechanical robustness**  
 High abrasion and bending resistance, suitable for dynamic applications (e.g. on moving platforms)
- Seawater and UV resistance**  
 Suitable for outdoor use and in maritime conditions
- Insulation material**  
 Cross-linked insulation material HF90, in acc. with IEC 60092-360
- Approvals & standards**  
 Generally compliant with DNV and UL (Underwriters Laboratories)
- Possible approvals & standards**  
 ABS, BV, CCS, Lloyd's Register

## TECHNICAL DATA >

Insulation resistance	10 MΩ · km
Testing voltage	3000 V AC

## CABLE CONSTRUCTIONS >

Available cross sections 0.5 mm<sup>2</sup> – 50 mm<sup>2</sup>  
 Standard colours: Black, white, red, green-yellow, further colours on request

## MECHANICAL PROPERTIES >

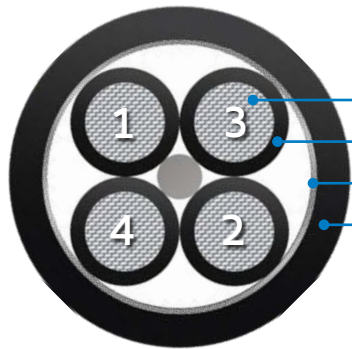
<b>Temperature range</b>	
during operation	-40 °C to +140 °C
during installation	-10 °C to +80 °C
<b>Bending radius</b>	
repeated	10 × D
single	5 × D

CABLE CONSTRUCTION		IEC	IEC	UL	DNV Certificate
No. of cores	Nom. cross section mm <sup>2</sup>	Standard IEC 60092-353 Voltage rating 0.6/1.0 kV	Standard IEC 60092-376 Voltage rating 150/250 V	UL Standard Voltage rating 1000 V	
1	0.5   0.75   1   1.5   2.5		✓	✓	No. TAE00004SZ
1	4   6   10   16   25   35   50	✓			No. TAE00004SY

Further cross-sections available on request

# BizLink SeaLine® Temp 145

## Shielded design



**Conductor** › Stranded tinned copper wire

**Insulation** › Polypropylene (PP)

**Shield** › Tin-plated copper braid

**Outer jacket** › FRNC (SHF2)



### CABLE CHARACTERISTICS ›

- Temperature resistance**  
 Permanent use at temperatures up to +140 °C
- Halogen-free & low smoke**  
 Increased safety in the event of fire  
 (e.g. in acc. with IEC 60754-1/2 and IEC 61034)
- Flame resistance**  
 Complies with common maritime standards such as IEC 60332-1-2 und IEC 60332-3-22
- Oil, mud and chemical resistance**  
 Suitable for offshore environments  
 Meet requirements in acc. with SHF2 and NEK 606
- Mechanical robustness**  
 High abrasion and bending resistance  
 Suitable for dynamic applications (e.g. on moving platforms)
- Seawater and UV resistance**  
 Suitable for outdoor use and in maritime conditions
- Electrical properties**  
 Good EMC shielding (depending on structure)
- Approvals & standards**  
 Generally compliant with DNV, UL and CSA
- Possible approvals & standards**  
 ABS, BV, CCS, Lloyd's Register

### TECHNICAL DATA ›

<b>Insulation resistance</b>	≥500 MΩ·km
<b>Testing voltage (core/core/shield)</b>	3000 V AC

### MECHANICAL PROPERTIES ›

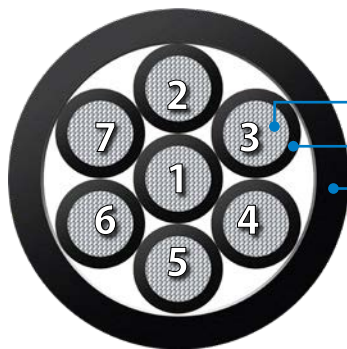
<b>Temperature range</b>	
during operation	-40 °C to +140 °C
during installation	-10 °C to +80 °C
<b>Bending radius</b>	
repeated	10 × D
single	5 × D

CABLE CONSTRUCTION		IEC	IEC	UL	DNV Certificate
No. of cores	Nom. cross section mm²	Standard IEC 60092-353 Voltage rating 0.6/1.0 kV	Standard IEC 60092-376 Voltage rating 150/250 V	UL Standard Voltage rating 1000 V	
2-50	0.5   0.75   1	*	✓	✓	No. TAE00003UX
2-12	1.5				
2-27	2.5				
2-5	4   6   10   16   25				
Pairs					
4x2 to 5x2	0.5	-	✓	✓	No. TAE00003UX
1x2 to 24x2	0.75				
2x2 to 4x2	1.5				

\* Cross-sections of 1 mm² to 25 mm² are also possible with thicker wall thicknesses of the cores.  
 Further designs with different cross-sections available on request

# BizLink SeaLine® Temp 145

## Unshielded design



- Conductor** › Stranded tinned copper wire
- Insulation** › Insulation of Thermoplastic copolymer (FRNC)
- Outer jacket** › FRNC (SHF2)



### CABLE CHARACTERISTICS ›

- **Temperature resistance**  
Permanent use at temperatures up to +140 °C
- **Halogen-free & low smoke**  
Increased safety in the event of fire (e.g. in acc. with IEC 60754-1/2 and IEC 61034)
- **Flame resistance**  
Complies with common maritime standards such as IEC 60332-1-2 and IEC 60332-3-22
- **Oil, mud and chemical resistance**  
Suitable for offshore environments  
Meet requirements in acc. with SHF2 and NEK 606
- **Mechanical robustness**  
High abrasion and bending resistance  
Suitable for dynamic applications (e.g. on moving platforms)
- **Seawater and UV resistance**  
Suitable for outdoor use and in maritime conditions
- **Electrical properties**  
Good EMC shielding (depending on structure)
- **Approvals & standards**  
Generally compliant with UL and CSA
- **Possible approvals & standards**  
ABS, BV, CCS, DNV, Lloyd's Register

### TECHNICAL DATA ›

<b>Insulation resistance</b>	≥500 MΩ · km
<b>Testing voltage (core/core)</b>	3000 V AC

### MECHANICAL PROPERTIES ›

<b>Temperature range</b>	
during operation	-40 °C to +140 °C
during installation	-10 °C to +80 °C
<b>Bending radius</b>	
repeated	10 × D
single	5 × D

CABLE CONSTRUCTION		IEC	IEC	UL	DNV Certificate
No. of cores	Nom. cross section mm²	Standard IEC 60092-353 Voltage rating 0.6/1.0 kV	Standard IEC 60092-376 Voltage rating 150/250 V	UL Standard Voltage rating 1000 V	
2-50	0.5   0.75	-	✓	✓	possible
2-50	1   1.5   2.5	✓	-		
2-5	4   6   10   16   25				

Further designs with different cross-sections available on request

## Marine

**BizLink Special Cables Germany GmbH**

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